



**Government of India
Ministry of Earth Sciences
India Meteorological Department**

Press Release

Date: 30th May, 2023

Time of Issue: 1330 hours IST

Subject: Rainfall along with thunderstorm activity likely to continue over Northwest India during next 4 days and decrease thereafter.

Weather observed during past 24 hours ending at 0830 hrs IST of today: (Annexure I)

Advance of southwest monsoon:

- ❖ Southwest Monsoon has further advanced into some parts of Southwest Bay of Bengal, some more parts of Southeast Bay of Bengal, entire Andaman & Nicobar Islands, Andaman Sea and some parts of Eastcentral Bay of Bengal today, the 30th May, 2023.
- ❖ The Northern Limit of Southwest Monsoon now passes through 5°N/80°E, 6.5°N/83°E, 10°N/88°E, 14°N/92°E & 17°N/95°E (**Annexure II**).
- ❖ Conditions are favourable for further advance of Southwest Monsoon into some parts of Maldives & Comorin area, some more parts of Southwest Bay of Bengal, remaining parts of Southeast Bay of Bengal, some more parts of Central Bay of Bengal and some parts of Northeast Bay of Bengal during next 2-3 days.

Significant Meteorological features:

- ❖ The Western Disturbance as a cyclonic circulation in middle & upper tropospheric level lies over north Pakistan and an induced cyclonic circulation lies over north Pakistan & adjoining Punjab at lower tropospheric level.
- ❖ A cyclonic circulation lies over southwest Rajasthan & adjoining Pakistan and another over East Madhya Pradesh in lower tropospheric levels.
- ❖ A fresh Western Disturbance likely to affect northwest India from 01 June, 2023.

Forecast and warning over the country during next 5 days:

Northwest India:

- ❖ Light/moderate scattered to fairly widespread rainfall with thunderstorm, lightning & occasional gusty winds/squall (40-50 gusting to 60 kmph) very likely over Northwest India till 01st June and decrease thereafter. **Hailstorm** very likely at isolated places over Rajasthan on 30th May, Himachal Pradesh during 30th May-01st June and over Uttarakhand during 30th May-02nd June.
- ❖ **Thundersquall/Gusty Wind speed 60-70 kmph** very likely at isolated places over Uttarakhand during 30th May-02nd June; and **Thundersquall/Dust Storm/Gusty Wind speed 50-60 kmph** very likely over Rajasthan on 30th-31st May.
- ❖ **Heavy rainfall** very likely at isolated places over Rajasthan on 30th May and Jammu & Kashmir on 31st May.

South India:

- ❖ Light/moderate fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over Kerala, Lakshadweep and scattered rainfall over South Interior Karnataka, Tamilnadu and Andhra Pradesh during next 5 days.
- ❖ **Heavy rainfall** very likely at isolated places over Coastal Andhra Pradesh and Telangana on 30th May; over Tamil Nadu, Coastal & South Interior Karnataka on 30th & 31st May and over Kerala during 30th May-03rd June.

No significant weather is likely over rest parts of the country during next 5 days.

Observed Maximum Temperatures and Heat Wave conditions:

- ❖ Yesterday, Maximum Temperatures were in the range of 40-42°C over many parts of Vidarbha, Telangana, Marathawada and south Andhra Pradesh; below 40°C over rest parts of the country.
- ❖ Maximum Temperatures were below normal by 6-8°C over parts of north Rajasthan, south Punjab, south Haryana; by 2-4°C over Madhya Pradesh, Uttar Pradesh, north Chhattisgarh. Maximum Temperatures were above normal by 2-4°C over most parts of East & Northeast India and over many parts of south peninsular India and near normal over rest parts of the country.

Maximum Temperature Forecast and Heat Wave Warnings (Graphics in Annexure III):

- ❖ No significant change in maximum temperature very likely over Northwest India during next 3 days and rise by 2-4°C thereafter. No significant change in maximum temperature very likely over Central India during next 24 hours and rise by 2-4°C thereafter. Rise by 2-4°C in maximum temperatures very likely over East India and Maharashtra during next 4 days. No significant change in maximum temperature very likely over rest parts of the country during next 5 days.
- ❖ **Heat wave conditions** very likely in isolated pockets over Bihar during 01st-03rd June and Gangetic West Bengal on 02nd & 03rd June.

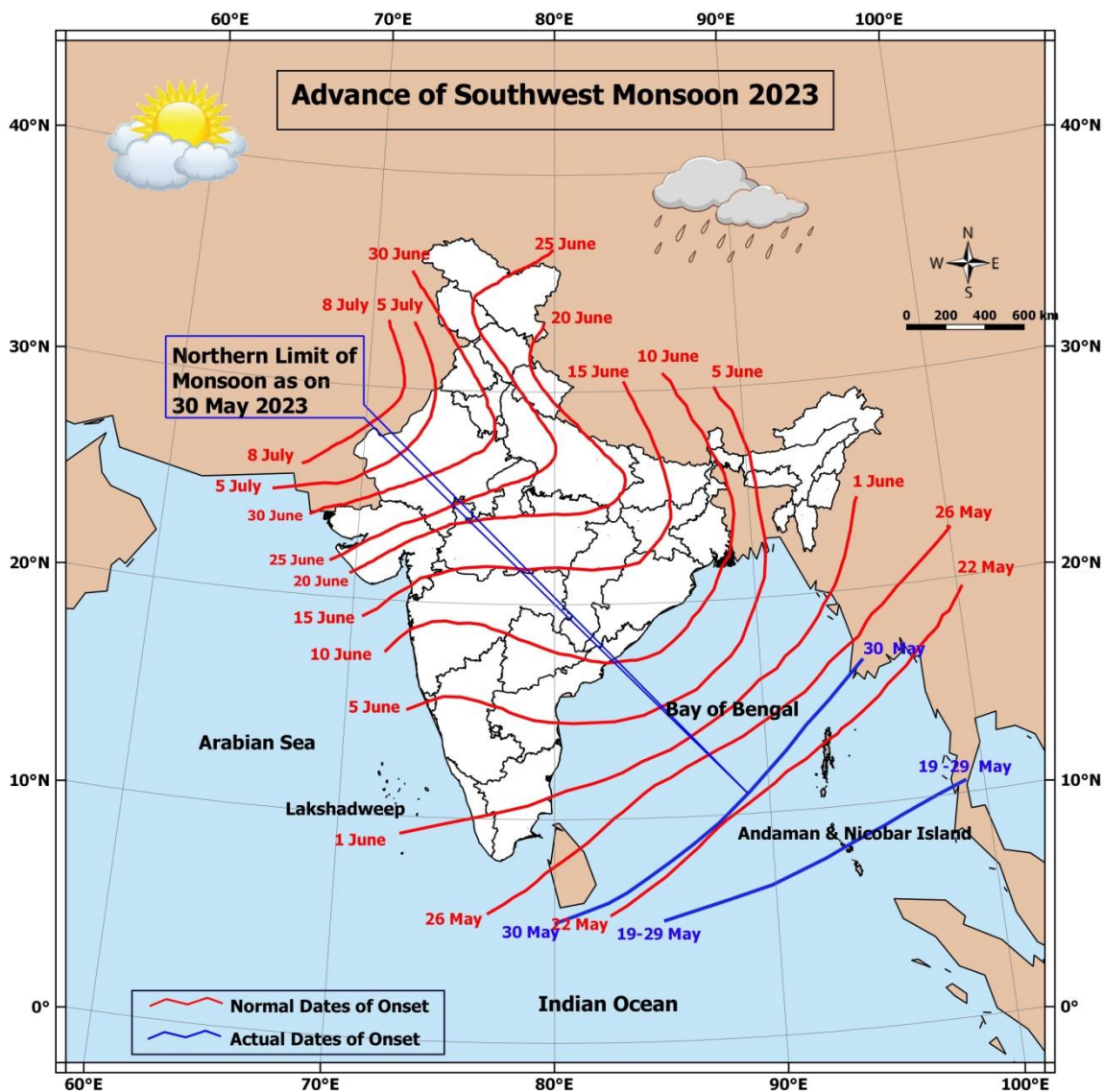
For more details kindly refer:

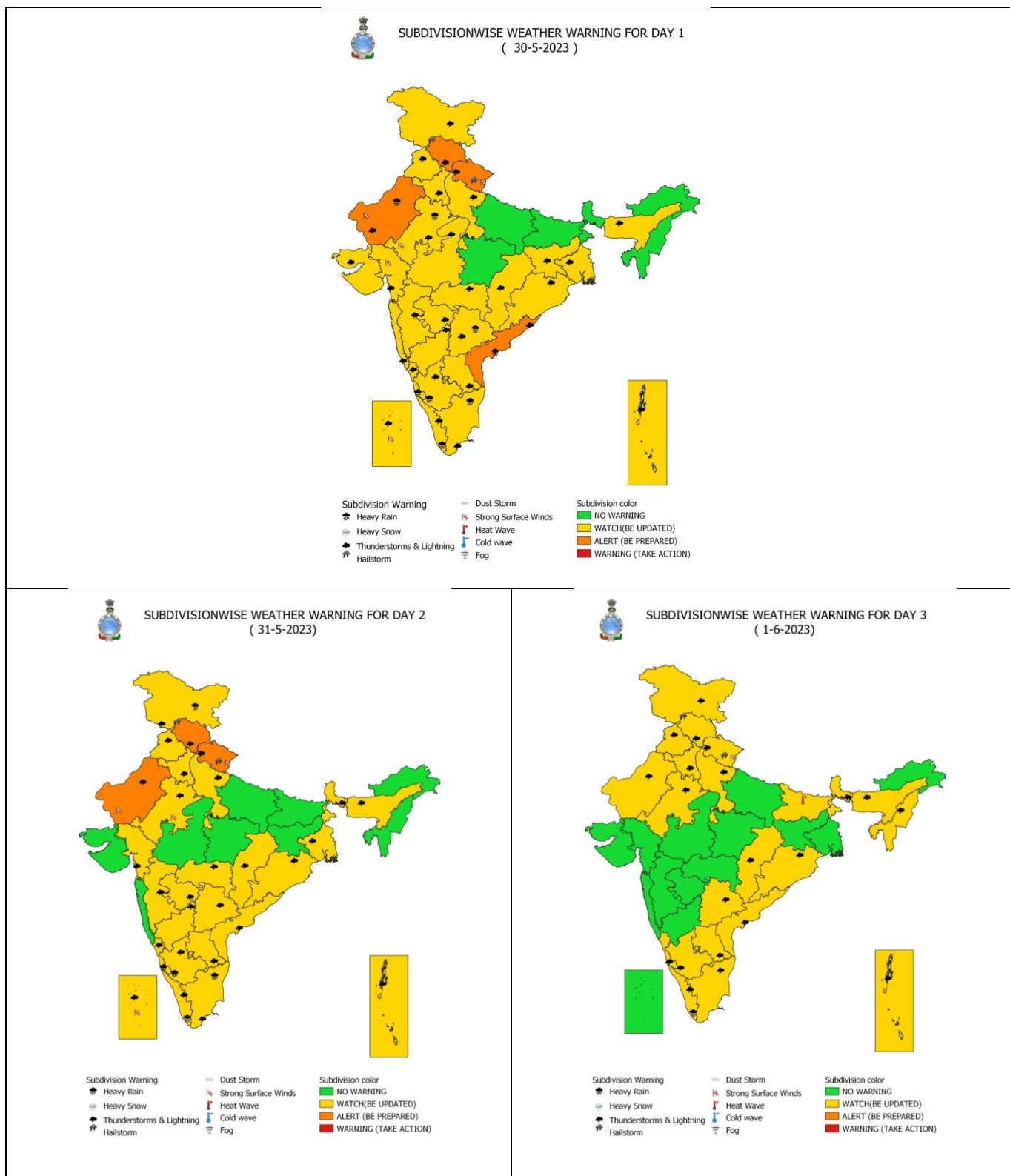
https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

<https://mausam.imd.gov.in/responsive/districtWiseNowcast.php>

Weather Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today):

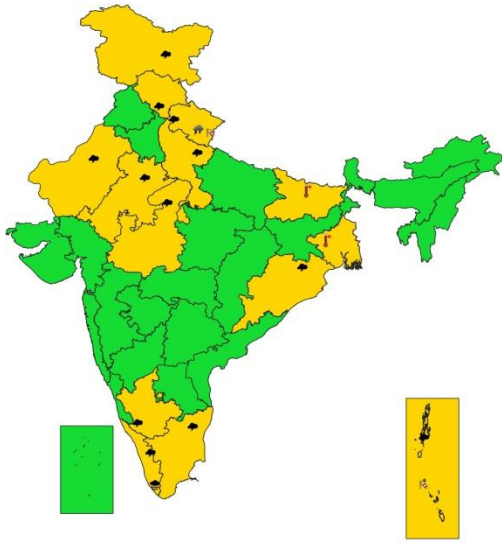
- **Rainfall/thundershowers** observed **at most places** over Andaman & Nicobar Islands, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh; **at many places** over Uttarakhand, Vidarbha, North Interior Karnataka, Telangana; **at a few places** over Punjab, Haryana, West Rajasthan, Kerala, Coastal & South Interior Karnataka and **at isolated places** over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha, Gangetic West Bengal, Saurashtra, Marathawada, Madhya Maharashtra, Marathawada, Rayalaseema, Coastal Andhra Pradesh and Tamilnadu, Puducherry & Karaikal.
- **Heavy Rainfall observed** at isolated places over Uttarakhand, Punjab, Haryana, West Rajasthan, West Madhya Pradesh, Tamil Nadu and North Interior Karnataka.
- **Significant rainfall recorded (in cm): Uttarakhand:** Tehri-10, Dhanaulti-5, West Rajasthan: Jaisalmer-8; **Haryana:** Thanesar (dist Kurukshetra) 7, Kurukshetra Kvk Aws (dist Kurukshetra) 6, **Punjab:** Sirhind (dist Fatehgarh Sahib) 7, Fatehgarh Sahib (dist Fatehgarh Sahib) 7, Khanna (dist Ludhiana) 6, Fatehgarh Sahib Aws (dist Fatehgarh Sahib) 6, **West Rajasthan:** Jaisalmer-8, **Himachal Pradesh:** Sirmaur-6, Shimla-5, **West Uttar Pradesh:** Etah-5; **West Madhya Pradesh:** Ater (dist Bhind) 7, **West Madhya Pradesh:** Ater (dist Bhind) 7, **Andaman & Nicobar Islands:** Long Islands-6, Car Nicobar 3, **Tamil Nadu:** Sivagangai-7.
- **Hailstorm observed** at isolated places over Himachal Pradesh, Uttarakhand, Punjab and Madhya Maharashtra.
- **Duststorm reported** at isolated places over West Rajasthan.
- **Thundersquall** speed reaching 60-70 kmph reported at isolated places over Uttarakhand and Vidarbha.







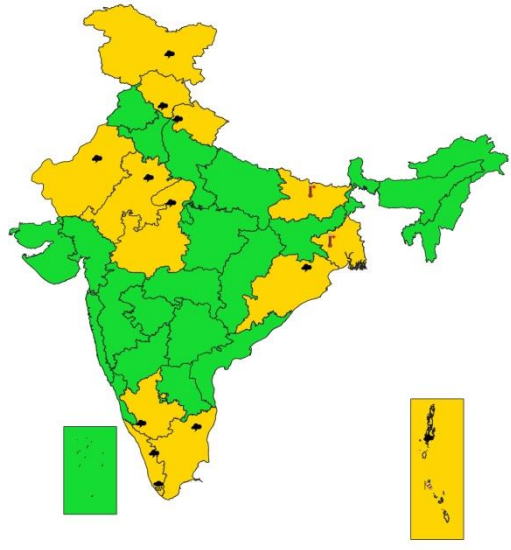
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(2-6-2023)**



- | | | |
|----------------------------|----------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| Heavy Rain | Strong Surface Winds | NO WARNING |
| Heavy Snow | Heat Wave | WATCH (BE UPDATED) |
| Thunderstorms & Lightning | Cold wave | ALERT (BE PREPARED) |
| Hailstorm | Fog | WARNING (TAKE ACTION) |



**SUBDIVISIONWISE RAINFALL FORECAST FOR DAY 5
(3-6-2023)**



- | | | |
|----------------------------|----------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| Heavy Rain | Strong Surface Winds | NO WARNING |
| Heavy Snow | Heat Wave | WATCH (BE UPDATED) |
| Thunderstorms & Lightning | Cold wave | ALERT (BE PREPARED) |
| Hailstorm | Fog | WARNING (TAKE ACTION) |

Impact expected and action suggested due to thunderstorm/thunder squall with lightning/gusty winds & Hailstorm over

30th May: West Rajasthan, Himachal Pradesh, Uttarakhand, Coastal Andhra Pradesh

31st May: West Rajasthan, Himachal Pradesh, Uttarakhand

Impact expected:

- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

Agromet advisories for rainfall, thunderstorms/gusty winds and heat wave likely over various parts of the country

- Make necessary arrangements for draining out excess water from crop fields to avoid water stagnation in Rajasthan, Tamil Nadu, Kerala, Coastal and South Interior Karnataka, Coastal Andhra Pradesh and Telangana.
- Use hail nets to protect orchards in Himachal Pradesh, Uttarakhand and Rajasthan.
- Provide mechanical support to horticultural crops and staking to vegetables.














Legends:

❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.

❖ **Region wise classification of meteorological Sub-Divisions:**

- **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- **East India:** Bihar, Jharkhand, Sub-Himalaya West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Lakshadweep.

SPATIAL DISTRIBUTION (% of Stations reporting)			
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

Subdivision Warning	 Dust Storm	Subdivision color
 Heavy Rain	 Strong Surface Winds	 NO WARNING
 Heavy Snow	 Heat Wave	 WATCH(BE UPDATED)
 Thunderstorms & Lightning	 Cold wave	 ALERT (BE PREPARED)
 Hailstorm	 Fog	 WARNING (TAKE ACTION)

Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75